

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. GNE.2930R1C4	APPLICATION NO. 10/033,398
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Botstein et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE December 27, 2001	GROUP 1656

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	5,536,637	07/16/98	Jacobs			

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
N	2.	Akimaru et al. (1997) Drosophila CBP is a co-activator of cubitus interruptus in hedgehog signalling. Nature. 386:735-738.
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	4.	Alexandre et al. (1996) Transcriptional activation of hedgehog target genes in drosophila is mediated directly by the cubitus interruptus protein, a member of the GLI family of zinc finger DNA-binding proteins. Genes & Development. 10:2003-2013.
	5.	Apelqvist et al. (1997) Sonic hedgehog directs specialised mesoderm differentiation in the intestine and pancreas. Current Biology. 7:801-804.
	6.	Bellusci et al. (1997) Involvement of sonic hedgehog (Shh) in mouse embryonic lung growth and morphogenesis. Development. 124:53-63.
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	8.	Busson et al. (1988) Genetic analysis of viable and lethal fused mutants of drosophila melanogaster. Roux's Arch. Dev. Biol. 197:221-230.
	9.	Chen et al. (1996) Dual roles for patched in sequestering and transducing hedgehog. Cell. 87:553-563.
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	11.	Chidambaram et al. (1996) Mutations in the human homologue of the Drosophila patched gene in Caucasian and African-American nevoid basal cell carcinoma syndrome patients. Cancer Research. 56:4599-4601.
	12.	Dominguez et al. (1996) Sending and receiving the hedgehog signal: control by the drosophila Gli protein cubitus interruptus. Science. 272:1621-1625.
	13.	Echelard et al. (1993) Sonic hedgehog, a member of a family of putative signaling molecules, is implicated in the regulation of CNS polarity. Cell. 75:1417-1430.
	14.	Ericson et al. (1995) Sonic hedgehog induces the differentiation of ventral forebrain neurons: a common signal for ventral patterning within the neural tube. Cell. 81:747-756.
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	16.	Gallani et al. (1996) The role of the human homologue of drosophila patched in sporadic basal cell carcinomas. Nature Genetics. 14:78-81.
	17.	Grau and Simpson (1987) The segment polarity gene costal-2 in drosophila. Developmental Biology. 122:186-200.
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EXAMINER	DATE CONSIDERED
	1/18/02

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
N	20. Hynes et al. (1995) Induction of midbrain dopaminergic neurons by sonic hedgehog. <i>Neuron</i> . 15:35-44.
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	24. Johnson et al. (1994) Ectopic expression of sonic hedgehog alters dorsal-ventral patterning of somites. <i>Cell</i> . 79:1165-1173.
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✓	46. Simpson and Grau (1987) The segment polarity gene costal-2 in drosophila. <i>Developmental Biology</i> . 122:201-209.
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EXAMINER	DATE CONSIDERED
	4/15/04

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MAY 21 2002

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
✓	48. Stone et al. (1996) The tumour-suppressor gene patched encodes a candidate receptor for sonic hedgehog. Nature. 384:129-134.
	49. Thérond et al. (1996) Functional domains of fused, a serine-threonine kinase required for signaling in drosophila. Genetics. 142:1181-1198.
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✓	54. Xie et al. (1998) Activating smoothed mutations in sporadic basal-cell carcinoma. Nature. 391:90-92.
	55. Database search, Locus list: hum (349, 801 seqs, 66, 984, 548 aa), Mon Jan 7 16:12:49 2002 [BLASTP 2.2.1 [Jul-12-2001], NCBI] 2 pp.
✓	56. Database search, Locus list: hum - est (1, 803, 435 seqs, 6, 559, 376, 613 bp), Tue Jan 8 09:15:52 2002 [BLASTN 2.2.1 [Jul-12-2001], NCBI] 8 pp.

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EXAMINER	<i>M</i>	DATE CONSIDERED	<i>4/15/01</i>
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